

HP 24-Port 4x Fabric Copper Switch

Quick Setup Instructions



Read instructions completely before beginning installation procedure.

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HP 24-Port 4x Fabric Copper Switch Quick Setup Instructions

Second Edition (November 2004)
Part Number 377711-002



Overview

This card provides an overview of how to install the HP 24-Port 4x Fabric Copper Switch. For more detailed instructions, refer to the *HP 24-Port 4x Fabric Copper Switch Hardware User Guide*. To locate the latest switch firmware and user documentation go to <http://support.hp.com/>

Select “Software & Driver downloads.” On the Software & Driver Downloads page, enter your product name, then click the double arrow.

Kit Contents

- HP 24-Port Fabric Copper Switch
- Switch bezel
- Serial management cable, DB-9, 10 ft (3m)
- Two sets of rack rails (sliding rail and fixed rail assembled together)
- Twelve Torx screws for attaching rails to switch
- Eight screws and clips for attaching rails to rack
- Four rubber mounting feet for desktop installations
- Rack support bracket
- Two power cables, IEC C14
- This installation card
- *Important Safety Instructions* booklet
- Limited Warranty and Material Limitations Documentation

Requirements

- In addition to the accessories provided with the switch, you should have:
- A T-10 Torx driver and a Phillips #2 screw driver
 - Two people are recommended to perform the installation

Preparing for Installation

1. Read the cautionary statements in the *Important Safety Instructions* booklet included in the kit.
2. Ground yourself using an approved ground wrist-strap.
3. Make sure you have the right cables and sufficient ventilation.
4. Prepare a management workstation, such as a PC running a terminal program, and a serial management cable (included).
5. Open the box, remove the switch, bezel, rack rails, bracket, serial management cable, and parts bag.
6. Place the switch on a secure, clean surface.
7. Open the plastic bag containing mounting parts and locate:
 - Torx screws for attaching the rails to the switch
 - Screws and clips for attaching the rails to the rack
8. Check the slot in the rack for 1U clearance.
9. Install the rack support bracket, if required.

Installing the Rack Support Bracket

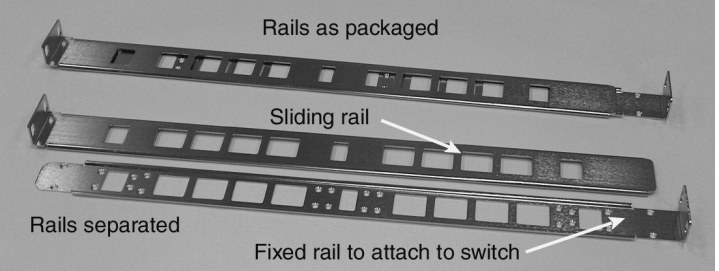
The HP 24-Port 4x Fabric Copper Switch ships with a rack support bracket kit. Installation of the bracket is required when the switch is mounted in a rack without any equipment mounted directly below it. If the switch is mounted in a rack directly above other equipment, the bracket is not needed.

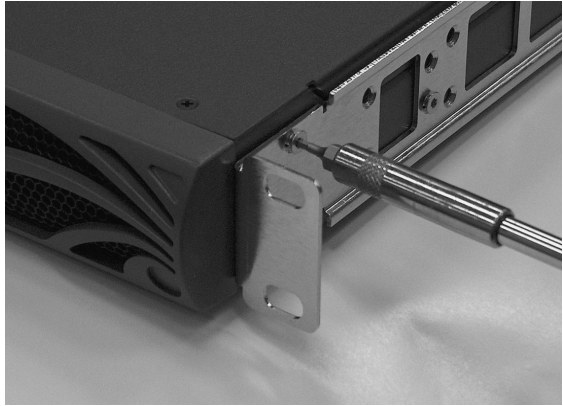
Mount the bracket to the rack using four screws. The bracket should be positioned in the 1U of space directly below the intended location of the switch. The bracket is intended to support the front of the switch (the end from which the power supplies are accessible and the cables are not accessible). Ensure that the bracket orientation matches your intended switch mounting orientation.

The figure below shows the position of the bracket and switch after both are installed in the rack.



Mounting the Switch in a Rack

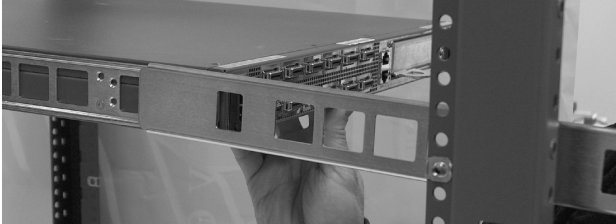
- HP recommends that two people install the switch into the rack. One person holds the switch while another person secures it to the rack.
1. Snap the bezel on to the front of the switch.
 2. Take one set of rack rails and separate them. Each set arrives with the sliding rail assembled to a fixed rail. They need to be separated prior to attaching to the switch, as shown in the figure below.
- 
3. Attach the fixed rail to the side of the switch. To install the switch with the bezel to the front of the rack, install with the flange at the front of the switch. You can also mount the flange toward the back if you want to mount the switch backward in the rack such that the service-side is forward. Attach the rail with six screws to each side of the switch in the locations shown in the following figure. Screw locations are the same in the switch regardless of rail orientation.



4. Repeat steps Steps 1 and 2 on the other side of the switch. The two sliding rails (that do not have screw holes) should still be unattached.
5. Loosely attach the switch with one screw through the front of each rail.

CAUTION: Temporarily support the switch until the sliding rails are attached. Do not let the switch hang unsupported from only the fixed rail flanges.

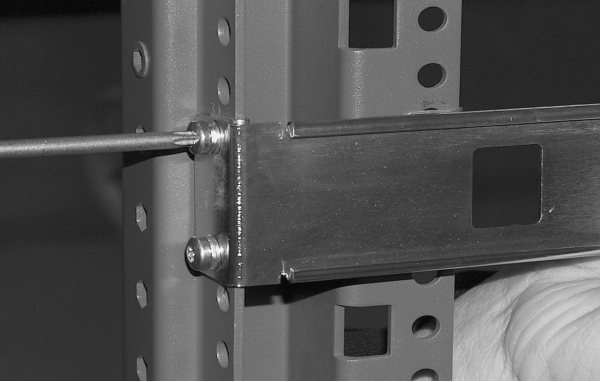


6. Fit the sliding rails over the fixed rails with the flanges facing outward until the flanges meet the rack.
- 
7. Fit sliding rail to rack.



CAUTION: Keep switch supported until each rail is attached to the rack.

Securely attach all rails to the rack as shown in the following figure.



Configuring Basic Connectivity

1. Attach the serial management cable.
 - a. Connect the serial management cable from the switch to your terminal or management workstation; use the cable kit that is provided in the package. For detailed information on serial management cable, refer to the Serial Cable Kit Guide located at <http://support.hp.com/>
 - b. Open a terminal emulation window using a program such as HyperTerminal for Windows®. Set your terminal parameters to the following:

Baud: 9600 bps
Data Bits: 8
Parity: None
Stop Bits: 1
Flow control: None
2. Attach the two power cables and power on the switch. For more information, see the *HP 24-Port 4x Fabric Copper Switch Hardware User Guide*. Insert the power cords. The system will automatically boot up. You can watch the running status via the serial console.
3. Configure an IP address for the Ethernet management port. It is necessary to configure connectivity to the out-of-box Ethernet management port in order to use Telnet or the GUI. The switch Ethernet management port is not pre-configured when it ships from the factory.
 - a. When the switch has completed booting, press **Enter** several times to display the CLI prompt.

Login:
 - b. Enter the default user name **super** and password **super**.

Login: **super**
Password: **super**
HP>
 - c. Enter **enable**.

HP> **enable**
HP #
 - d. Enter **configure**.

HP # **configure**
HP (config)#
 - e. Enter **interface mgmt-ethernet** to enter config-if-mgmt-ethernet mode.

HP(config)# interface mgmt-ethernet
HP(config-if-mgmt-ethernet)#

- f. Enter the IP address of the management port followed by the netmask. For example:

HP(config-if-mgmt-ethernet)# **ip address 10.10.0.22 255.255.255.0**
- g. Set the default gateway for the management port. Ask your system administrator for a gateway address. For example:

HP(config-if-mgmt-ethernet)# **gateway 10.10.0.1**
- h. Enable the management port by entering **no shutdown**.

HP(config-if-mgmt-ethernet)# **no shutdown**
- i. Save the configuration to preserve it between reboots.

HP(config-if-mgmt-ethernet)# **exit**
HP(config)# **exit**
HP# copy running-config startup-config

Additional References

Refer to the following documents, which can be found at: <http://support.hp.com/>

- *HP Dual-port 4x Fabric Adapter User Guide*—for information on installing and configuring the HCA and HCA drivers
- *HP 24-Port 4x Fabric Copper Switch Hardware User Guide*—for information on the features of the switch hardware
- *HP 24-Port 4x Fabric Copper Switch User Guide*—for information on InfiniBand™ concepts and procedures for using the Command Line interface and Graphical User Interface (GUI)
- *HP 24-Port 4x Fabric Copper Switch Command Line Reference Guide*—for information on the commands used to manage and troubleshoot the switch
- *HP 24-Port 4x Fabric Copper Switch Chassis Manager User Guide*—for information on how to use the web-based GUI to manage and troubleshoot the switch
- *HP Serial Management Cable Guide*—for information on the serial management cable

(Optional) Launch Chassis Manager

To launch Chassis Manager:

1. Launch your Web browser on a PC or server in the same Ethernet subnet as the switch Ethernet management port.
2. Type the IP address of your switch Ethernet management port in the address field of your browser and press **Enter**. A login window opens.
3. Enter your switch user name and password in the login window and click **OK**. The Chassis Manager loads in your browser window. Refer to the *HP 24-Port 4x Fabric Copper Switch Chassis Manager User Guide* for more information.

Regulatory Notices

This is a Class A device. For complete details, refer to the *HP 24-Port 4x Fabric Copper Switch Hardware User Guide* located at <http://support.hp.com/>